SWiMS Meeting Advanced Monitoring Initiative Project Summary

Developing Water and Land Tools to Forecast Bacterial Exposure in Beach Settings

March 18, 2008



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ORD Advanced Monitoring Initiative (AMI)

Objective: Develop, synthesize, compare and promote tools to provide early warnings about bacterial levels that pose health risks to beach communities. The synthesized system will forecast bacterial levels as a function of time and location.

Timeline: 2007-2009

Activities: Statistical modeling, watershed modeling EPA, USGS, NOAA, Lake County IL collaboration.



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AMI Project Participants

Pilot Project Lead(s): Richard Zepp, Richard Zdanowicz Walter Frick, Marirosa Molina, Alfred Krause (ORD/Region 5)

Key collaborators:

David Schwab, George Leshkevich – NOAA, GLERL, Ann Arbor, MI Richard Whitman, USGS, Porter IN

Donna Francy, USGS Ohio Water Science Center, Columbus, OH Ross Lunetta— ORD/NERL/ESD, Las Vegas, NV

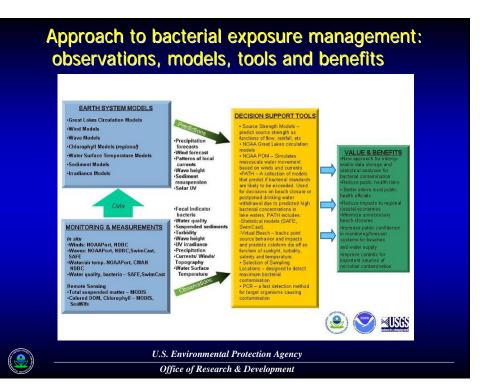
Rich Haugland, Al Dufour— ORD/NERL/MCEARD, Cincinnati, OH Holiday Wirick, David Rockwell — Region 5, Chicago, IL

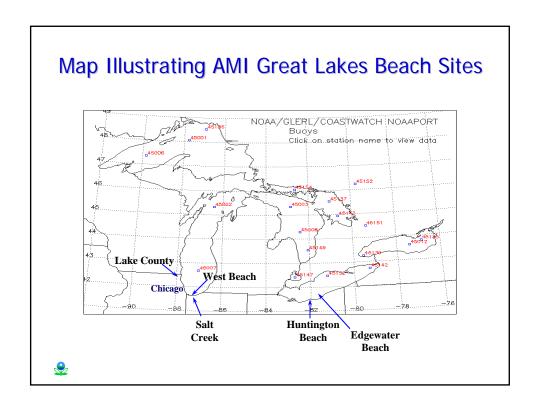
Mark Pfister, Mike Adams-Lake Cnty HIth Dept., Waukegan, IL



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Pathogen Fate and Transport Studies (Salt Creek)

- -Quantifying microbial levels (culturable and qPCR enterococci and qPCR bacteroidetes) and descriptive variables at selected locations on Salt Creek Indiana and develop statistical models for prediction at these sites
- -Collaboration with USGS (R. Whitman)



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